



## **MDWFP Aerial Waterfowl Survey Report**

November 16 - 18, 2020



## WATERFOWL PROGRAM

Prepared by:

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<u>Houston.Havens@wfp.ms.gov</u> <u>Darrin.Hardesty@wfp.ms.gov</u> The first MDWFP aerial waterfowl survey of the season occurred November 16 – 18, 2020. In contrast to the previous two years' November surveys, wetland habitat availability was below average for much of the Mississippi Delta. Shallow, managed water was not widely distributed, as public lands held the majority of intensively managed waterfowl habitat. As a result, waterfowl were observed responding to these areas, often in high numbers. A large portion of harvested agricultural fields have been disked, which will result in reduced food availability for waterfowl if the fields are eventually flooded. Additionally, Mississippi's soybean harvest is slightly behind schedule, and many fields in the Delta region are expected to be prepared for flooding after harvest is completed. Overall, tremendous opportunity remains for private landowners to capture rainfall with water control structures as fall and winter continue. As in most years, flooded habitat availability generally increased as survey transects moved further northeast.

The total duck abundance estimate for the Mississippi Delta was similar to the long-term average for November surveys, as were the individual estimates for mallards, other dabbling ducks, and diving ducks (Tables 1 and 2). Mallards and other dabblers comprised nearly 75% of all duck observations. Northern shovelers and gadwall were the two most abundant dabbling duck species observed overall. Scaup and ruddy ducks were the most abundant diving duck species observed. The northwestern portion of the Delta contained the greatest abundance of mallards, while the northeastern portion held the greatest numbers of other dabblers and total ducks overall. The greatest number of diving ducks were observed in the southeastern region.

Mallards were most commonly observed using flooded areas of agricultural fields and permanent wetlands like sloughs and oxbow lakes. In agricultural fields, ducks were commonly observed in large complexes with multiple flooded fields. Most other dabbling ducks were observed using aquaculture complexes and semi-permanent or permanent wetlands with aquatic vegetation. And as usual, the greatest abundances of diving ducks were observed on aquaculture complexes. In general, ducks were not evenly distributed across available wetland habitat. Instead, ducks were observed together in relatively large groups, which is typical of early-season behavior. Biologists speculate that ducks will soon begin to distribute further as new wetland habitats become available. Very few concentrations of light geese (snow, blue, and Ross') and greater white-fronted geese (commonly called specklebellies) were observed during this survey, but numbers are expected to increase as the hunting season progresses.

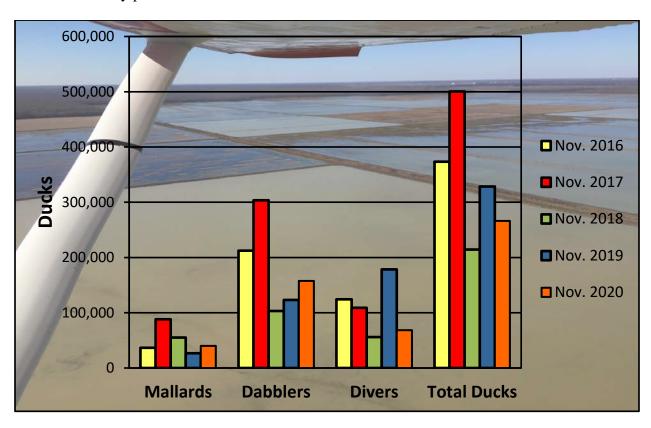
With the regular duck hunting season set to open November 27, MDWFP biologists are optimistic that WMAs will continue to attract and hold waterfowl for a great start to the season. Temperatures are currently forecasted to remain relatively mild with chances of rainfall through most of next week. Weather severity index models for waterfowl migration predict little to no significant migration for mallards over the next week.

Weekly waterfowl reports will begin the week following the duck season opener, and will include updates from Mississippi hunting reports, as well as weather and habitat conditions. For weekly waterfowl reports and more information on the MDWFP Waterfowl Program, visit our website at <a href="http://www.mdwfp.com/waterfowl">http://www.mdwfp.com/waterfowl</a>.

**Table 1**. Waterfowl abundance estimates in the Mississippi Delta during the November survey periods, 2007-2020.

	Mallards	<b>Dabblers</b>	Divers	<b>Total Ducks</b>
2007-08	25,872	34,241	27,992	88,106
2008-09	30,748	96,245	105,089	232,081
2009-10	24,281	137,996	77,839	240,117
2010-11	10,481	70,123	100,740	181,344
2011-12	43,845	183,823	80,928	308,596
2012-13	No survey	No survey	No survey	No survey
2013-14	No survey	No survey	No survey	No survey
2014-15	88,005	229,810	79,400	397,215
2015-16	30,933	57,702	54,167	142,802
2016-17	36,540	212,469	124,240	373,249
2017-18	88,019	303,472	109,101	500,591
2018-19	55,258	103,181	55,932	214,371
2019-20	26,866	123,036	178,488	328,390
2020-21	40,100	157,750	68,343	266,194
Average	41,746	142,487	88,522	272,755

**Figure 1**. Waterfowl abundance estimates in the Mississippi Delta during the five most recent November survey periods.



**Table 2**. Comparison of November 2020 aerial waterfowl survey estimates to the long-term average (LTA) for November survey estimates.

Species Group	November 2020	November LTA	% Change from LTA
Mallards	40,100	41,746	-3.9%
Other Dabblers	157,750	142,487	+10.7%
Diving Ducks	68,343	88,522	-22.8%
<b>Total Ducks</b>	266,194	272,755	-2.4%

